

T500R Solar Lantern

T500R
d.light design Inc

Verify online:
<https://data.verasol.org/products/sek/dl-t500r>
Valid until: January 31, 2024

Results based on test procedures detailed in IEC TS 62257-9-5 and IEC TS 62257-9-8



Meets the requirements in IEC TS 62257-9-8:2020 for Size A Kits



Mobile charging

PAYG

Pay-As-You-Go option available

2

Light point(s)



Plug-and-play



WARRANTY INFORMATION

A 2-year warranty covering manufacturing defects in the system

PERFORMANCE DETAILS

VeraSol Certified?	Included in Kit?	Appliance ^a	Description	Run time after a typical day of solar charging (assuming 5kWh/m ² /day)	
				Used alone ^b	Used in combination ^c
yes	included	Main Unit Lighting (Integrated torch)	Integrated torch with a power consumption of 1.8 W while in-use	9.7 hours	4.2 hours
yes	included	Integrated side lamp	Integrated lamp with a power consumption of 1.8 W while in-use	9.7 hours	--
yes	included	Integrated radio	integrated battery with a power consumption of 0.2W while in-use	97 hours	1 hours
no	not included	Mobile phone	Basic phone (3.7 Wh battery)	2 full charge(s)	1 full charge(s)

Available daily electrical energy ^c (Wh/day)	15
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Performance measure	Brightness setting: high
Lighting full battery run time ^d for Integrated torch (hours)	9.9
Total lighting service (lumen-hours/solar-day) (includes the both main lighting unit and any lights with internal batteries included with the product)	1920

^a Only included appliances were tested. Run times and power ratings for appliances sold separately come from manufacturer ratings or standard estimates.

^b Without any other loads used during the run time

^c Based on an example use profile with all of the appliances listed in the "Used in combination" column used simultaneously.

^d Lighting full battery run time estimates do not account for mobile phone charging or other auxiliary loads; the run time is defined as the time until the output is 70% of the initial, stabilized output.

LIGHTING DETAILS


Lamp name	Number of lamps	Number of settings	Setting	Light output (lm)	Lumen efficacy ^e (lm/W)	CRI ^f	CCT ^g	Distribution type	Lumen maintenance ^h
Main Unit (Integrated Torch)	1	3	High	200	110	72	5400	Narrow	100%
Integrated Side Lamp	1	2	High	120	66	85	6700	Wide	99%

^e Lumen efficacy is the power consumption at a light point during the light output test.

^f Color Rendering Index. An index of 100 is equivalent to viewing objects in daylight; above 80 is considered good.

^g Correlated Color Temperature in degrees Kelvin. Describes color appearance as warm (2700-3000 K), cool (3000-5000 K), or daylight (>5000 K)

^h Percent of the original light output that remains after 2,000 hours of run time

SPECIAL FEATURES		
multi-use	★ The solar lantern can be used as torch, ambient light or radio.	
PORTS		
1	USB 2.0 type A 	
DURABILITY		
Overall durability and workmanship	Pass	
Durability tests passed	Switch test, Drop test, Strain relief test, Physical ingress protection, PV durability tests	
Level of water protection	Main Unit	Has protection from occasional rain; met with appropriate warning label
	PV module	Has protection from permanent outdoor exposure.
SOLAR DETAILS		
PV module type	Polycrystalline silicon	
PV maximum power	5.6 watts	
MAIN UNIT BATTERY DETAILS		
Battery replaceability	Easily replaceable with common tools; however, the warranty is void if product is opened.	
Battery chemistry	Lithium-ion	
Specific Li-ion battery chemistry	lithium cobalt oxide	
Battery package type	18650	
Battery capacity	4.8 Ah	
Battery nominal voltage	3.7 V	
Battery status/ other indicator lights	1 LED on the screen on the side shows battery status	
PRODUCT DETAILS		
Manufacturer name	d.light design Inc	
Product name	T500R Solar Lantern	
Product model / ID number	T500R	
Contact information	testing@dlight.com	
Website	www.dlight.com	
Dimensions (entire product in package)	21.5 x 12 x 14.5 cm	
Mass	1600 g	
SSS INFORMATION		
Specs sheet expiration date	January 31, 2024	
Revision	2022.01	